

Machine Id **PETERBILT 345 (S/N 1NPCL40X1ND817799)** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- GAL)**

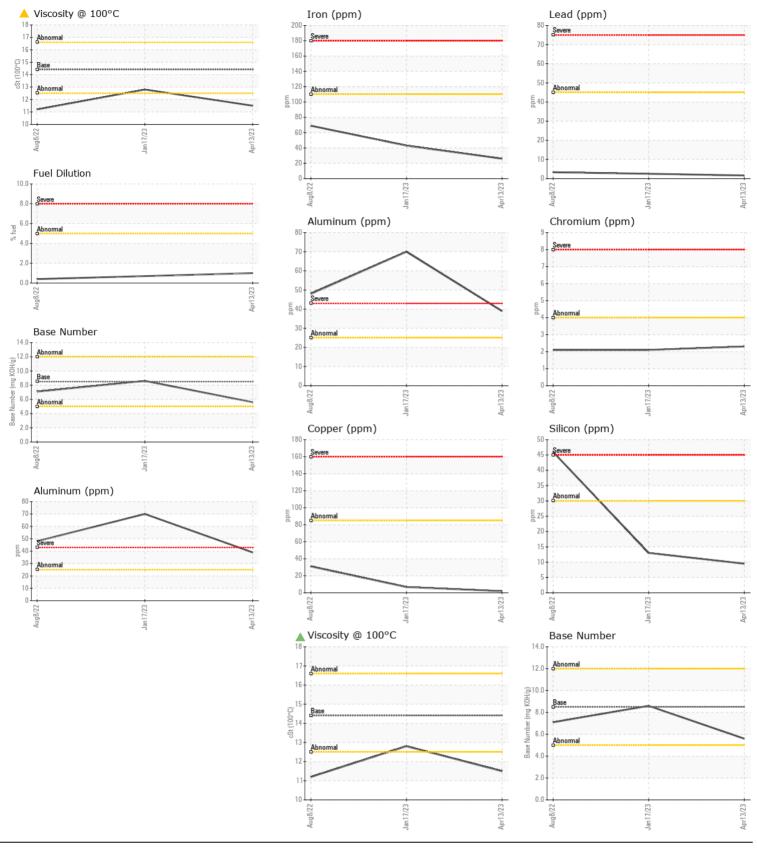
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0755483	WC0755467	WC0722183
	Sample Date	la con	Client Info		13 Apr 2023	17 Jan 2023	08 Aug 2022
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ATTENTION	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>110	26	43	69
	Chromium	ppm	ASTM D5185m	>4	2	2	2
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>25	39	70	48
	Lead	ppm	ASTM D5185m	>45	2	2	3
	Copper	ppm	ASTM D5185m	>85	2	7	31
	Tin	ppm	ASTM D5185m	>4	<1	2	4
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Ciliaan				10	10	A 40
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	13	▲ 46
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m ASTM D3524		86	191	166
	Fuel	%			1.0	<1.0	0.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	%	WC Method *ASTM D7844	. 0	NEG 0.4	NEG 0.6	NEG 0.5
	Nitration	Abs/cm	*ASTM D7644		5.9	9.1	12.0
	Sulfation	Abs/.1mm	*ASTM D7024		15.2	20.5	22.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m		6	3	8
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m	250	17	5	56
	Barium	ppm	ASTM D5185m		1	<1	7
	Molybdenum	ppm	ASTM D5185m	100	11	56	12
	Manganese	ppm	ASTM D5185m		<1	2	7
	Magnesium	ppm	ASTM D5185m		44	928	667
	Calcium	ppm	ASTM D5185m		2184	1086	1269
	Phosphorus	ppm	ASTM D5185m		854	942	648
	Zinc	ppm	ASTM D5185m		1084	1187	784
	Sulfur	ppm	ASTM D5185m		2953	3269	2591
	Oxidation	Abs/.1mm	*ASTM D7414		7.8	15.7	17.8
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	8.6	7.1
	Vian (0 10000	-01	AOTM D445	4 4 4		10.0	11 0

Visc @ 100°C cSt ASTM D445 14.4

11.2

12.8

11.5



MANGUMS INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回命 Sample No. : WC0755483 Recieved : 20 Apr 2023 P.O. BOX 7177 Lab Number : 05825445 Diagnosed : 25 Apr 2023 WILSON, NC **Unique Number** : 10433528 US 27895 Diagnostician : Jonathan Hester Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: ALAN BAGLEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. alanb@mangumsinc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: ?